

SEQUENCE LISTING

<110> Institut Pasteur
Institut National de la Santé et de la Recherche Médicale
(INSERM)

<120> Repertoire determination of a lymphocyte B population

<130> D21747

<150> EP 03/293,159
<151> 2003-12-15

<150> US 10/734,622
<151> 2003-12-15

<160> 47

<170> PatentIn version 3.2

<210> 1
<211> 21
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(21)
<223> /note="description of artificial sequence: Forward primer HUMVH1a
specific for the nucleic acid encoding a VH segment of the VH1
subgroup"

<400> 1
agtgaaggtc tcctgcaagg c 21

<210> 2
<211> 21
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(21)
<223> /note="description of artificial sequence: Forward primer HUMVH1b
specific for the nucleic acid encoding a VH segment of the VH1
subgroup"

<400> 2
agtgaagggtt tcctgcaagg c 21

<210> 3
<211> 21
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(21)
<223> /note="description of artificial sequence: Forward primer HUMVH1c

specific for the nucleic acid encoding a VH segment of the VH1 subgroup"

<400> 3
agtgaarrtc tcctgcaagg t 21

<210> 4
<211> 19
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(19)
<223> /note="description of artificial sequence: Forward primer HUMVH2
specific for the nucleic acid encoding a VH segment of the VH2
subgroup"

<400> 4
aaccacasa gaccctcac 19

<210> 5
<211> 24
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(24)
<223> /note="description of artificial sequence: Forward primer
HUMVH3aa specific for the nucleic acid encoding a VH segment of
the VH3a subgroup"

<400> 5
gcagattcac catctcaaga gatg 24

<210> 6
<211> 24
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(24)
<223> /note="description of artificial sequence: Forward primer
HUMVH3ab specific for the nucleic acid encoding a VH segment of
the VH3a subgroup"

<400> 6
gcaggttcac catctccaga gatg 24

<210> 7
<211> 22
<212> DNA
<213> Artificial

<220>

<221> source
<222> (1)..(22)
<223> /note="description of artificial sequence: Forward primer
HUMVH3ba specific for the nucleic acid encoding a VH segment of
the VH3b subgroup"

<400> 7
gccgattcac catctccaga ga 22

<210> 8
<211> 22
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(22)
<223> /note="description of artificial sequence: Forward primer
HUMVH3bb specific for the nucleic acid encoding a VH segment of
the VH3b subgroup"

<400> 8
gcagattcac catctccaga ga 22

<210> 9
<211> 22
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(22)
<223> /note="description of artificial sequence: Forward primer
HUMVH3bc specific for the nucleic acid encoding a VH segment of
the VH3b subgroup"

<400> 9
gccgattcac catctccagg ga 22

<210> 10
<211> 22
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(22)
<223> /note="description of artificial sequence: Forward primer
HUMVH3bd specific for the nucleic acid encoding a VH segment of
the VH3b subgroup"

<400> 10
gcaggttcac catctccaga ga 22

<210> 11
<211> 22
<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(22)

<223> /note="description of artificial sequence: Forward primer HUMVH4a specific for the nucleic acid encoding a VH segment of the VH4 subgroup"

<400> 11

ctacaacccg tccctcaaga gt

22

<210> 12

<211> 22

<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(22)

<223> /note="description of artificial sequence: Forward primer HUMVH4b specific for the nucleic acid encoding a VH segment of the VH4 subgroup"

<400> 12

ctacaacccc tccctcaaga gt

22

<210> 13

<211> 18

<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(18)

<223> /note="description of artificial sequence: Forward primer HUMVH5 specific for the nucleic acid encoding a VH segment of the VH5 subgroup"

<400> 13

gtgaaaaagc ccggggag

18

<210> 14

<211> 18

<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(18)

<223> /note="description of artificial sequence: Forward primer HUMVH6 specific for the nucleic acid encoding a VH segment of the VH6 subgroup"

<400> 14

tccggggaca gtgtctct

18

<210> 15
<211> 21
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(21)
<223> /note="description of artificial sequence: Forward primer HUMVH7
specific for the nucleic acid encoding a VH segment of the VH7
subgroup"

<400> 15
ggtgcaatct ggtctgagt t 21

<210> 16
<211> 17
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(17)
<223> /note="description of artificial sequence: Reverse primer IGJH1
specific for the nucleic acid encoding a JH segment of the JH1
subgroup"

<400> 16
ccctggcccc agtgctg 17

<210> 17
<211> 18
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(18)
<223> /note="description of artificial sequence: Reverse primer IGJH2
specific for the nucleic acid encoding a JH segment of the JH2
subgroup"

<400> 17
ccacggcccc agagatcg 18

<210> 18
<211> 23
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(23)
<223> /note="description of artificial sequence: Reverse primer IGJH3
specific for the nucleic acid encoding a JH segment of the JH3
subgroup"

<400> 18

cccttgcccc cagayatcaa aag

23

<210> 19

<211> 19

<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(19)

<223> /note="description of artificial sequence: Reverse primer IGJH4.1
specific for the nucleic acid encoding a JH segment of the JH4
subgroup"

<400> 19

ggttccttg cccagtag

19

<210> 20

<211> 19

<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(19)

<223> /note="description of artificial sequence: Reverse primer IGJH4.2
specific for the nucleic acid encoding a JH segment of the JH4
subgroup"

<400> 20

ggttcccttg cccagtag

19

<210> 21

<211> 19

<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(19)

<223> /note="description of artificial sequence: Reverse primer IGJH4.3
specific for the nucleic acid encoding a JH segment of the JH4
subgroup"

<400> 21

ggtcccttg cccagtag

19

<210> 22

<211> 18

<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(18)

<223> /note="description of artificial sequence: Reverse primer IGJH5
specific for the nucleic acid encoding a JH segment of the JH5

subgroup"

<400> 22
tggccccagg rgtcgaac

18

<210> 23
<211> 20
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(20)
<223> /note="description of artificial sequence: Reverse primer IGJH6.1
specific for the nucleic acid encoding a JH segment of the JH6
subgroup"

<400> 23
ccttgcccc agacgtccat

20

<210> 24
<211> 20
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(20)
<223> /note="description of artificial sequence: Reverse primer IGJH6.2
specific for the nucleic acid encoding a JH segment of the JH6
subgroup"

<400> 24
ccttgcccc agacgtccat

20

<210> 25
<211> 20
<212> DNA

<213> Artificial

<220>
<221> source
<222> (1)..(20)
<223> /note="description of artificial sequence: Reverse primer IGJH6.3
specific for the nucleic acid encoding a JH segment of the JH6
subgroup"

<400> 25
ccttgcccc agacgtccat

20

<210> 26
<211> 16
<212> DNA
<213> Artificial

<220>

<221> source
<222> (1)..(16)
<223> /note="description of artificial sequence: Reverse primer HIGCM
specific for the nucleic acid encoding a CH segment of the IgM
heavy chain"

<400> 26
cagccaacgg ccacgc 16

<210> 27
<211> 19
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(19)
<223> /note="description of artificial sequence: Reverse primer HIGCGa
specific for the nucleic acid encoding a CH segment of the IgG
heavy chain"

<400> 27
tcagagcgcc tgagttcca 19

<210> 28
<211> 19
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(19)
<223> /note="description of artificial sequence: Reverse primer HIGCGb
specific for the nucleic acid encoding a CH segment of the IgG
heavy chain"

<400> 28
tcagggcgcc tgagttcca 19

<210> 29
<211> 15
<212> DNA
<213> Artificial

<220>
<221> source
<222> (1)..(15)
<223> /note="description of artificial sequence: Hydrolysis probe HCM
specific for the nucleic acid encoding the CH segment of the IgM
heavy chain "

<400> 29
ccgtcggata cgagc 15

<210> 30
<211> 19
<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(19)

<223> /note="description of artificial sequence: Reverse probe HCM
specific for the nucleic acid encoding the CH segment of the IgM
heavy chain"

<400> 30

ggagacgagg gggaaaagg

19

<210> 31

<211> 18

<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(18)

<223> /note="description of artificial sequence: VH5 internal forward
primer specific for the nucleic acid encoding a VH segment of the
VH5 subgroup"

<400> 31

agcccgggga gtctctga

18

<210> 32

<211> 17

<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(17)

<223> /note="description of artificial sequence: Hydrolysis probe
specific for the nucleic acid encoding a VH segment of the VH5
subgroup"

<400> 32

acccttacag gagatct

17

<210> 33

<211> 20

<212> DNA

<213> Artificial

<220>

<221> source

<222> (1)..(20)

<223> /note="description of artificial sequence: CH reverse primer
HIGCE1 specific for the nucleic acid encoding a CH segment of the
IgE"

<400> 33

tcacggaggt ggcattggag

20

<210> 34
<211> 14
<212> DNA
<213> Artificial

<220>

<223> /note="description of artificial sequence: CH reverse hydrolysis
probe HCG specific for the nucleic acid encoding a CH segment of
the IgG heavy chain"

<400> 34
ccggtgacgg tgtc

14

<210> 35
<211> 22
<212> DNA
<213> Artificial

<220>

<221> source

<222> (1)..(22)

<223> /note="description of artificial sequence: CH reverse probe HCG
specific for the nucleic acid encoding a CH segment of the IgG
heavy chain"

<400> 35
aagtagtcct tgaccaggca gc

22

<210> 36
<211> 16
<212> DNA
<213> Artificial

<220>

<221> source

<222> (1)..(16)

<223> /note="description of artificial sequence: CH reverse hydrolysis
probe HIGCE1-MGB specific for the nucleic acid encoding a
CH segment of the IgE"

<400> 36
tgctgcaaaa acattc

16

<210> 37
<211> 19
<212> DNA
<213> Artificial

<220>

<221> source

<222> (1)..(19)

<223> /note="description of artificial sequence: CH reverse probe
specific for the nucleic acid encoding a CH segment of the IgE"

<400> 37
cggtcaagg ggaagacgg

19

11/13

<210> 38
<211> 14
<212> PRT
<213> Artificial

<220>
<221> source
<222> (1)..(14)
<223> /note="description of artificial sequence: Amino acid CDR3
sequence of the clonal expansion A"

<400> 38

Thr His Ile Gly Tyr Ser Ala Ala Gly Trp Tyr Phe Asp Leu
1 5 10

<210> 39
<211> 25
<212> PRT
<213> Artificial

<220>
<221> source
<222> (1)..(25)
<223> /note="description of artificial sequence: /note="description of
artificial sequence: Amino acid CDR3 sequence of the clonal
expansion B"

<400> 39

Leu Gly Tyr Cys Ser Gly Gly Ser Cys Tyr Gly Val Gly Cys Gly Ala
1 5 10 15

Asp Cys Tyr Arg Glu Tyr Phe Gln Asp
20 25

<210> 40
<211> 18
<212> DNA
<213> Artificial

<220>
<221> source
<222> 1..18

<223> /note="Description of artificial sequence: Reverse primer
HIGCGint1 specific for the nucleic acid encoding a CH
segment of the IgG heavy chain

<400> 40
agggggaaga csgatggg

18

<210> 41
<211> 19
<212> DNA
<213> Artificial

<220>
<221> source

<222> 1..19

<223> /note="Description of artificial sequence: Reverse primer
HIGCGint2 specific for the nucleic acid encoding a CH
segment of the IgG heavy chain

<400> 41

ccttgaccag gcagcccag

19

<210> 42

<211> 22

<212> DNA

<213> Artificial

<220>

<221> source

<222> 1..22

<223> /note="Description of artificial sequence: Reverse primer
HIGCE4 specific for the nucleic acid encoding a CH segment
of the IgE heavy chain

<400> 42

gtgggtggctg gtaaggatcat ag

22

<210> 43

<211> 15

<212> DNA

<213> Artificial

<220>

<221> source

<222> 1..15

<223> /note="Description of artificial sequence: CH reverse
hydrolysis probe HIGCE4 specific for the nucleic acid
encoding a CH segment of the IgE heavy chain

<400> 43

ctccctcaac gggac

15

<210> 44

<211> 20

<212> DNA

<213> Artificial

<220>

<221> source

<222> 1..20

<223> /note="Description of artificial sequence: Reverse primer
HIGCA specific for the nucleic acid encoding a CH segment
of the IgA heavy chain

<400> 44

tttcgctcca ggacacactg

20

<210> 45
<211> 19
<212> DNA
<213> Artificial

<220>
<221> source
<222> 1..19

<223> /note="Description of artificial sequence: CH reverse
probe specific for the nucleic acid encoding a CH
segment of the IgA heavy chain

<400> 45
tcagcgggaa gaccttggg

19

<210> 46
<211> 15
<212> DNA
<213> Artificial

<220>
<221> source
<222> 1..15

<223> /note="Description of artificial sequence: CH reverse
hydrolysis probe specific for the nucleic acid encoding
a CH segment of the IgA heavy chain

<400> 46
ttccccccagg agcca

15

<210> 47
<211> 21
<212> DNA
<213> Artificial

<220>
<221> source
<222> 1..21

<223> /note="Description of artificial sequence: VH4 internal
forward primer specific for the nucleic acid encoding
a VH segment of the VH4 subgroup

<400> 47
ctcacctgcr ctgtctctgg t

21